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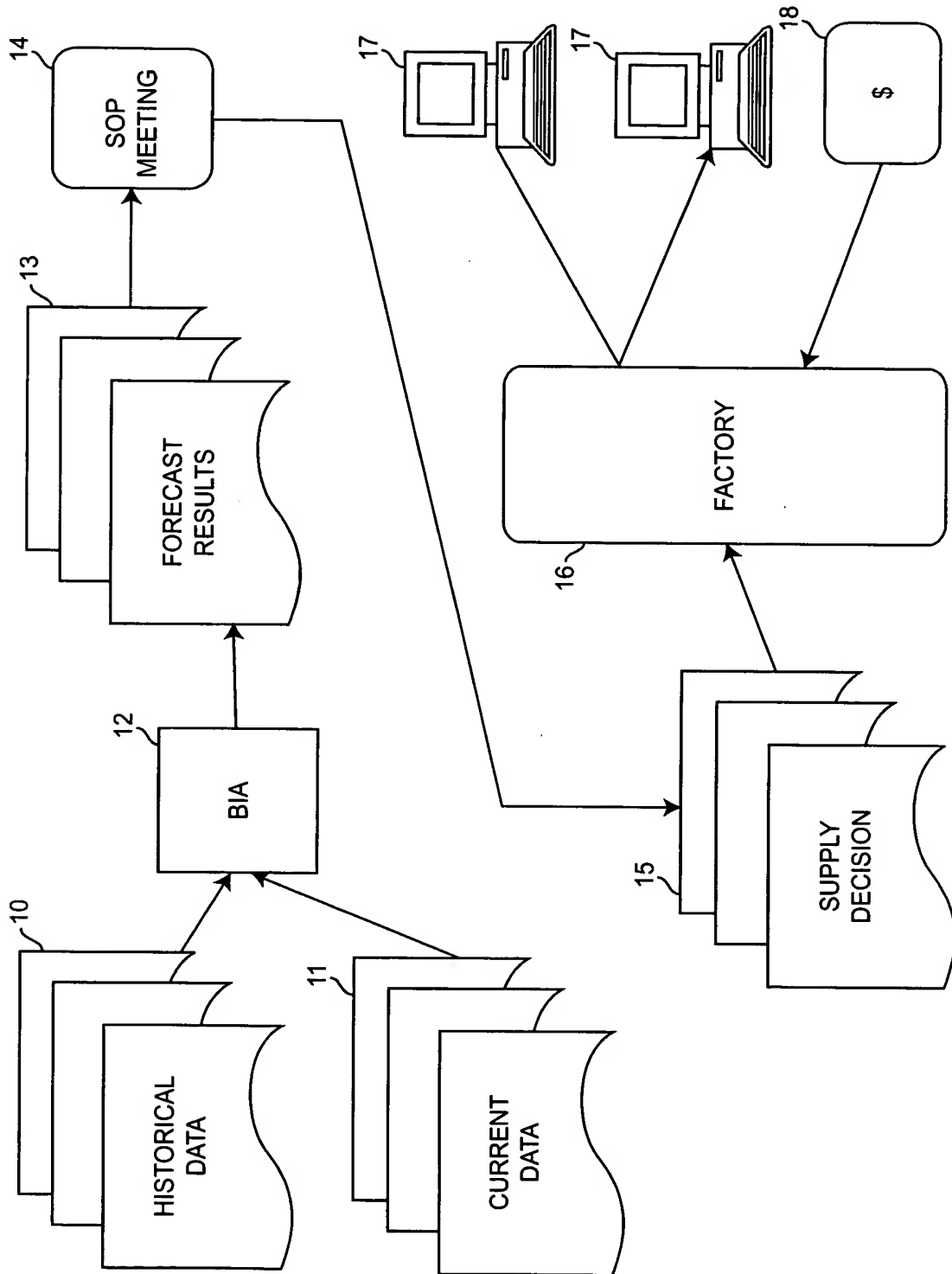


FIGURE 1

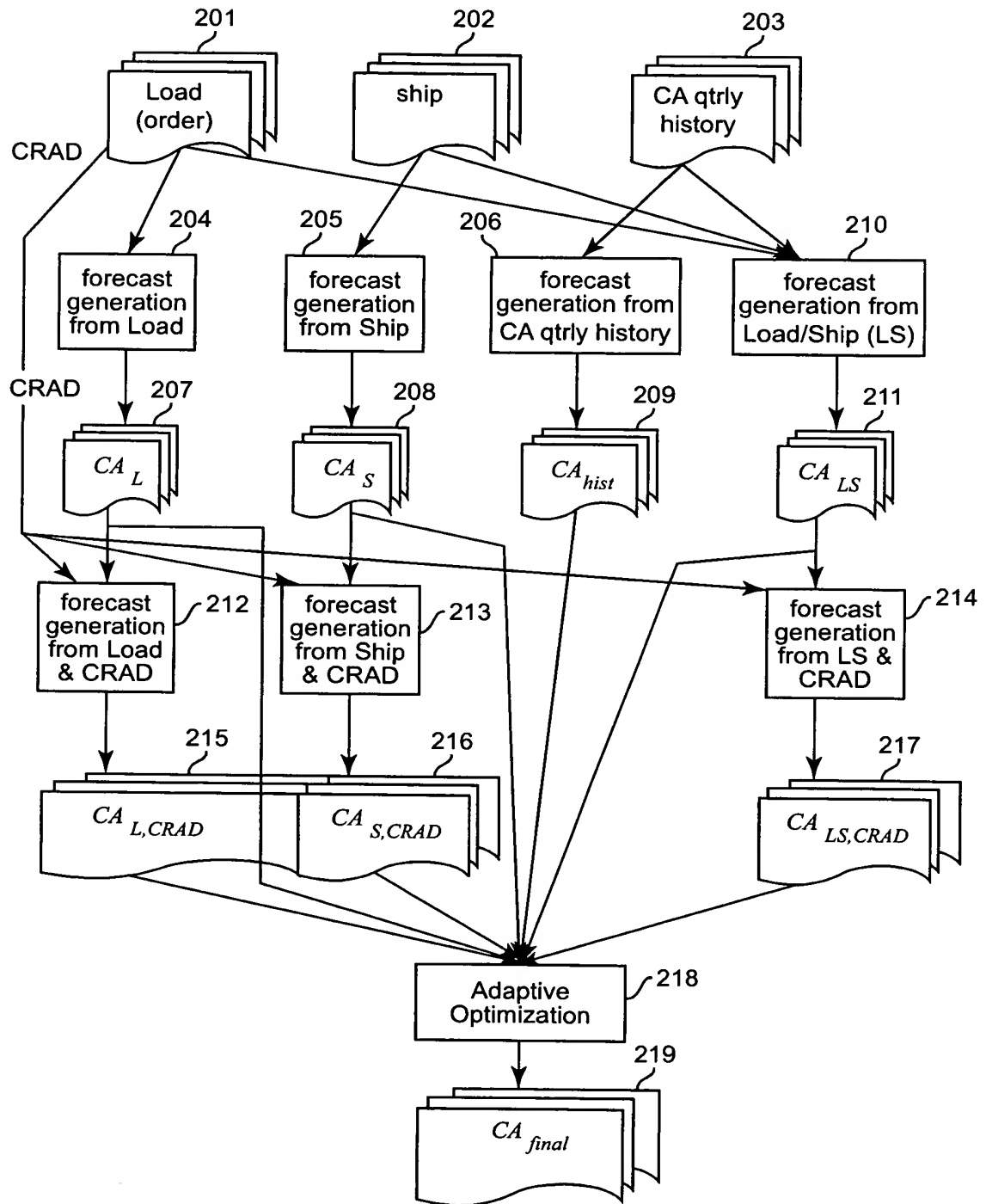


FIGURE 2

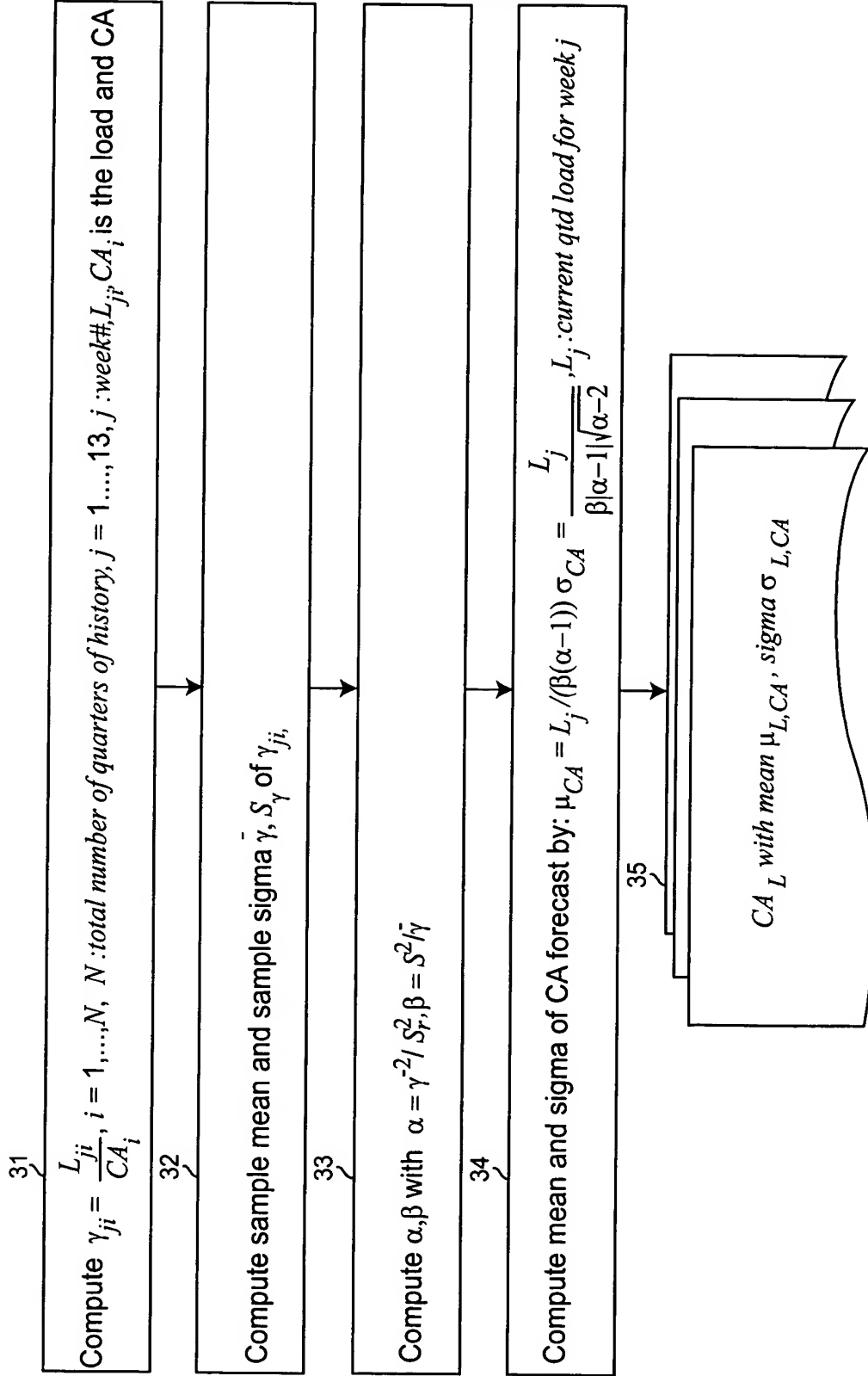


FIGURE 3

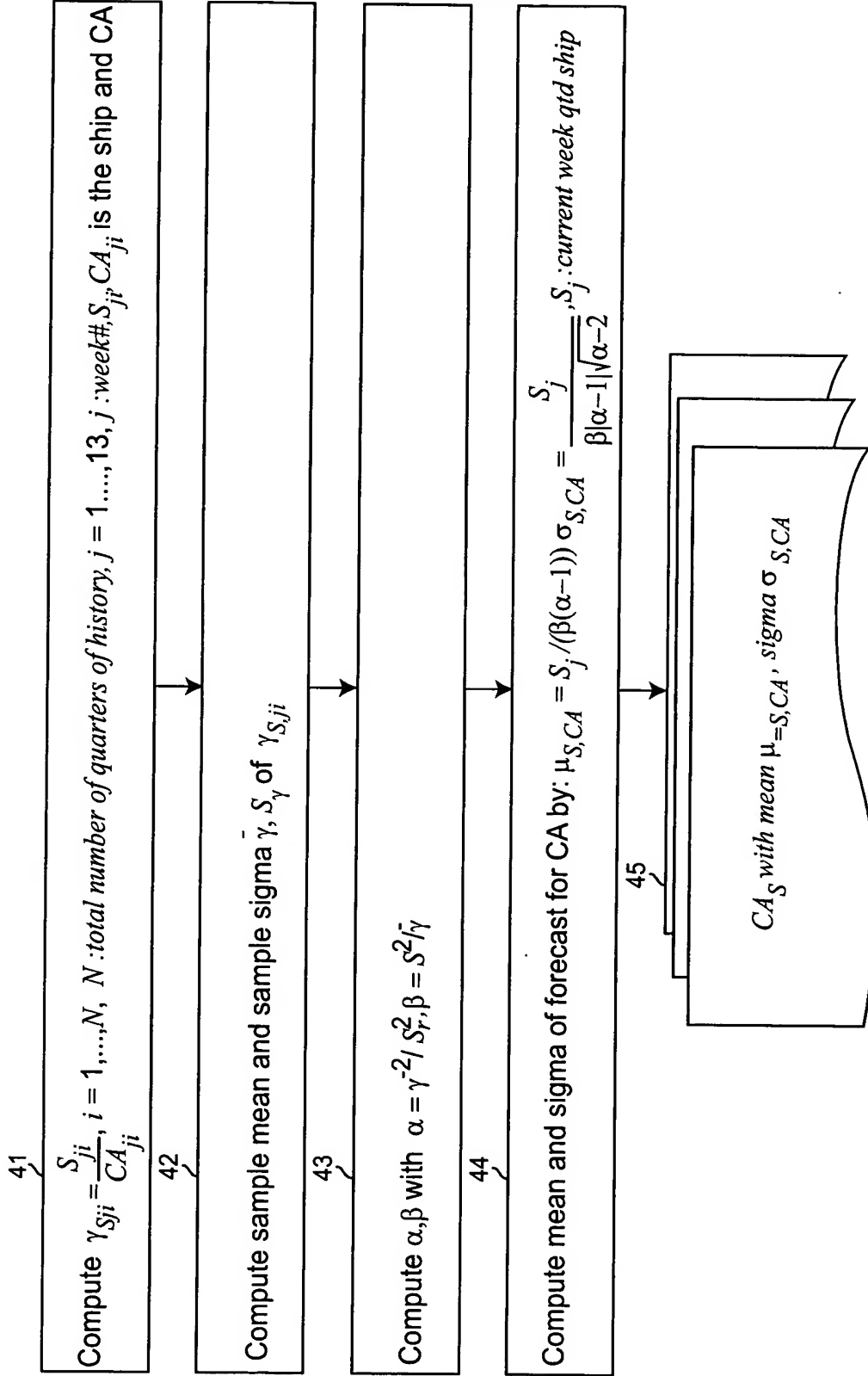


FIGURE 4

Compute $\gamma_{Lji} = \frac{L_{ji}}{CA_{ji}}$, $i = 1, \dots, N$, N : total number of quarters of history, $N > 2$; $j = 1, \dots, 13$, j : week#, L_{ji} , CA_j is the load and CA

502

Compute $S_{Lji} = \frac{S_{ji}}{L_{ji}}$, $i = 1, \dots, N$, N : total number of quarters of history, $j = 1, \dots, 13$, j : week#, L_{ji} , S_{ji} is the load and ship

503

Compute $S_{L\gamma j} = \sum_{i=1}^N S_{Lji} \gamma_{Lji}$, $i=1, \dots, N$, N : total number of quarters of history, $j = 1, \dots, 13$, j : week#;

504

Compute $S_{L\gamma j} = \sum_{i=1}^N S_{Lji}^2 \gamma_{Lji}$, $i=1, \dots, N$, N : total number of quarters of history, $j = 1, \dots, 13$, j : week#;

505

Compute $S_{Lw j} = \sum_{i=1}^N S_{Lji} w_{ji}$, $i=1, \dots, N$, N : total number of quarters of history, $j = 1, \dots, 13$, j : week#; w is the weight factor

506

Compute $\gamma_{w j} = \sum_{i=1}^N \gamma_{ji} w_{ji}$, $i=1, \dots, N$, N : total number of quarters of history, $j = 1, \dots, 13$, j : week#; w is the weight factor

507

Compute $W = \sum_{i=1}^N w_{ji}$, $i=1, \dots, N$, N : total number of quarters of history, w is the weight factor

508

Compute $\alpha = \frac{S_{Lw j} \gamma_{w j} - W S_{L\gamma w j}}{W S_{L^2 w j} - S_{L\gamma w j}^2}$, $i=1, \dots, N$, N : total number of quarters of history

509

Compute $b = \exp \left\{ \frac{\gamma_{w j} + \alpha S_{L\gamma w j}}{W} \right\}$, $i=1, \dots, N$, N : total number of quarters of history

510

Compute historical error $\varepsilon_{ji} = CA_i - L_{ji} / b S_{Lji}^{-\alpha}$, $i=1, \dots, N$, N : total number of quarters of history

A1

FIGURE 5A

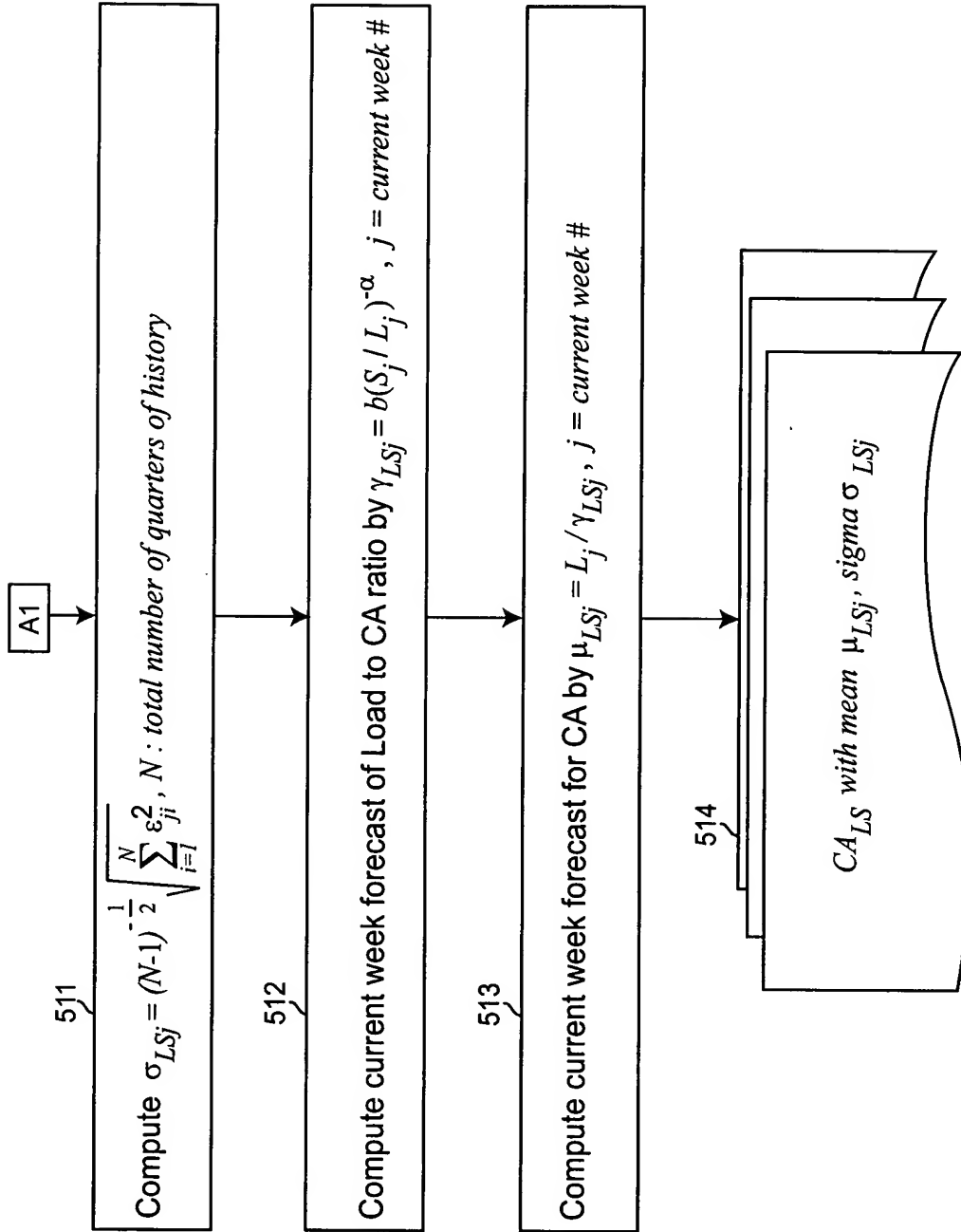
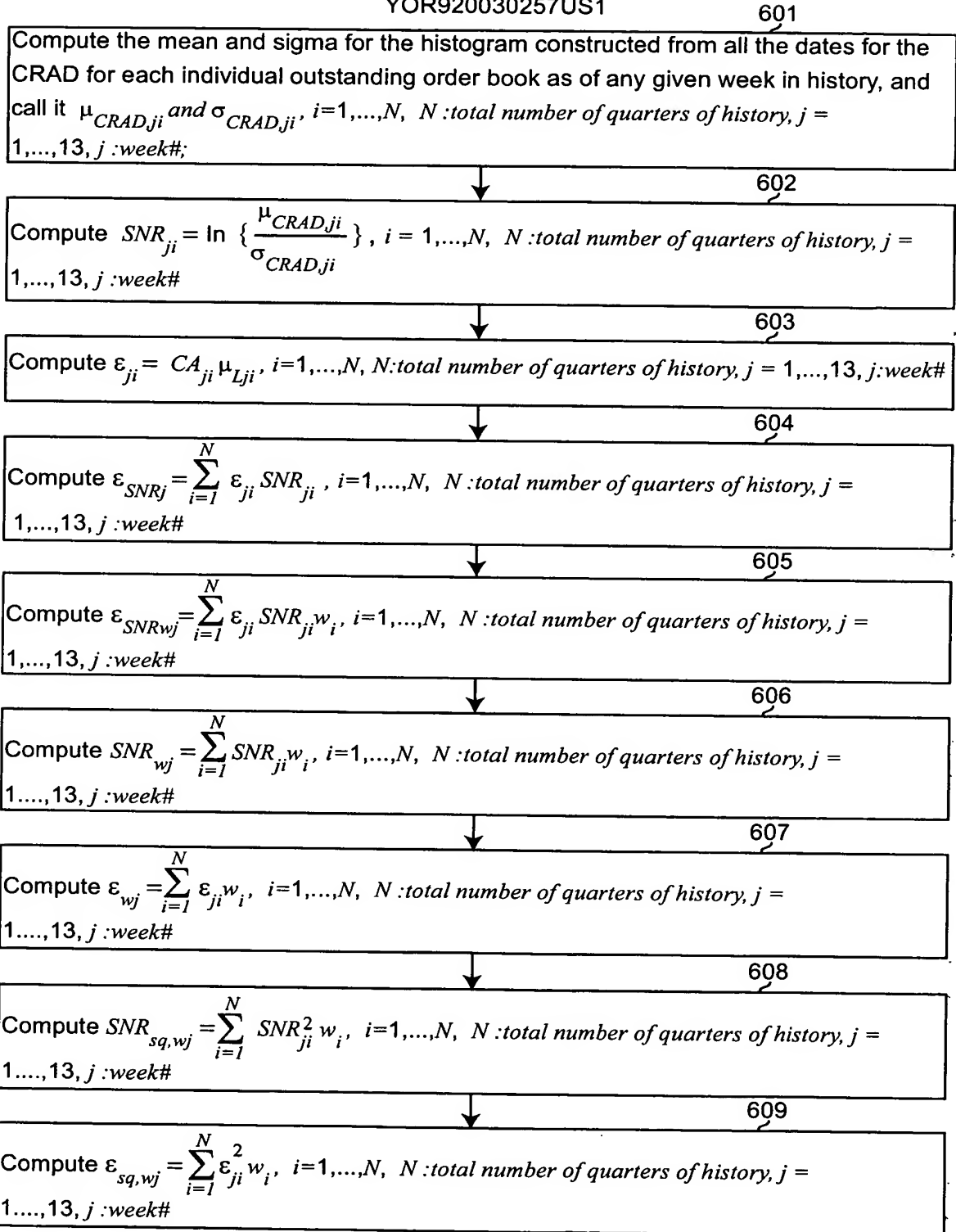


FIGURE 5B



R1

FIGURE 6A

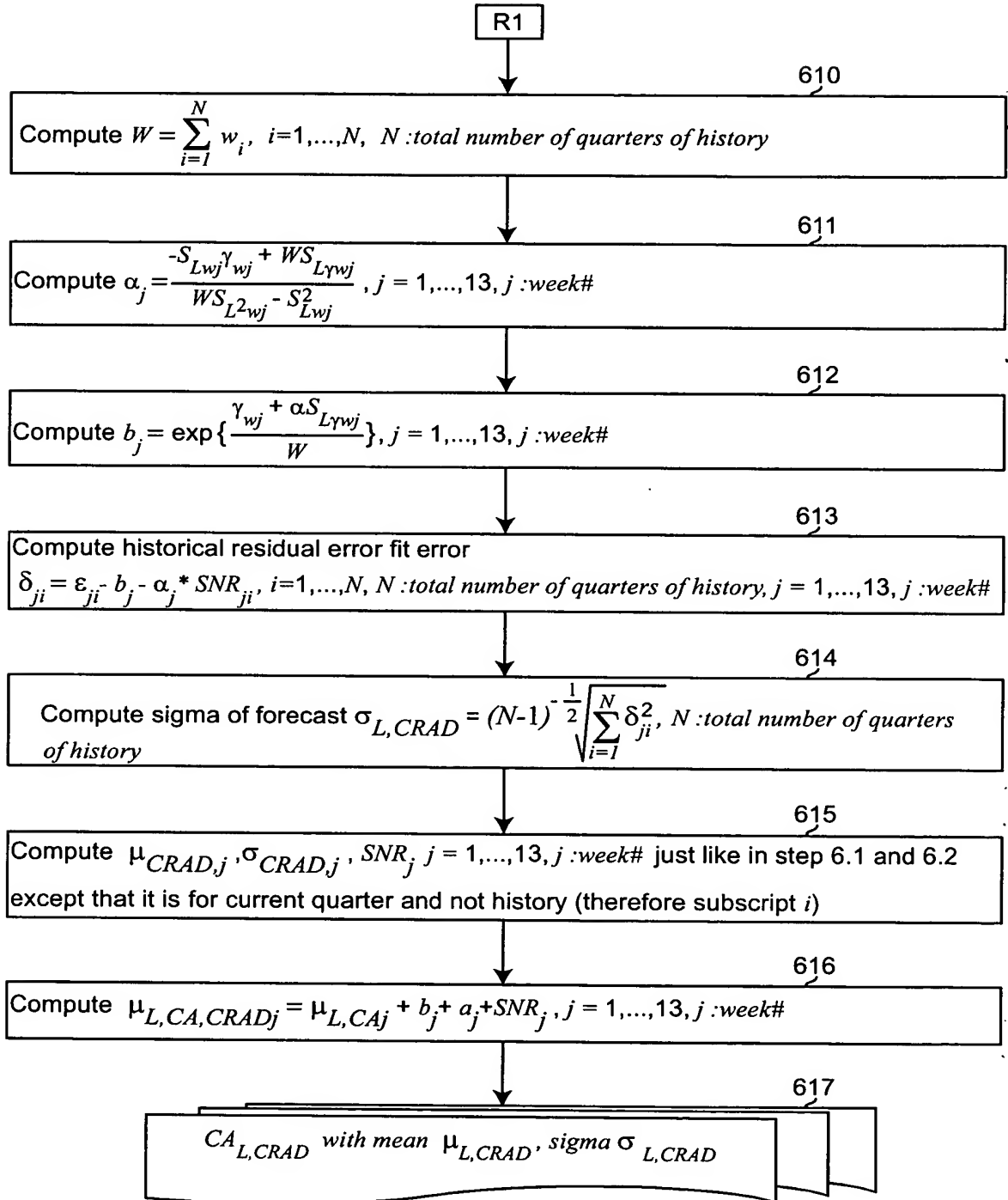


FIGURE 6B

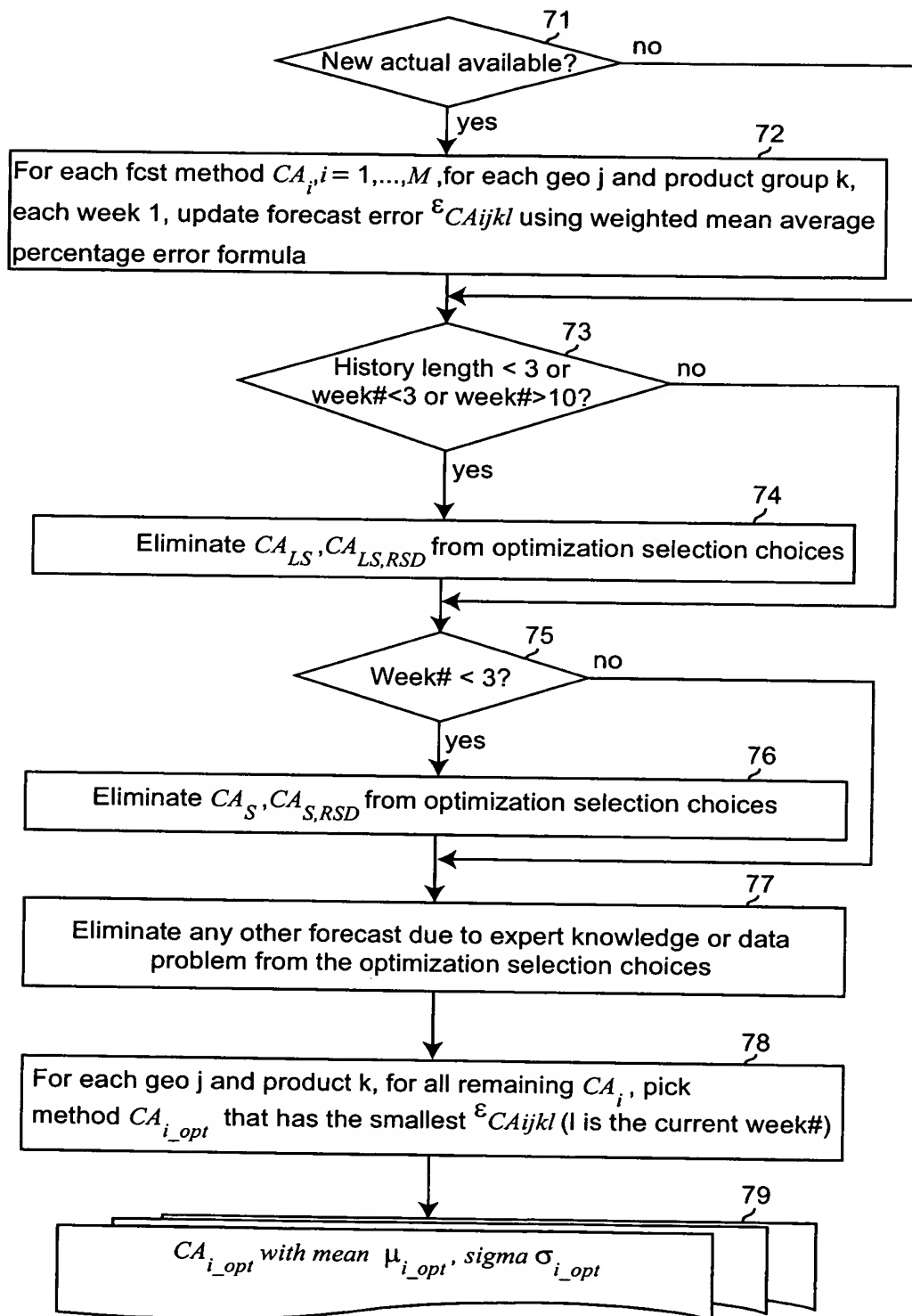


FIGURE 7

Load/CA vs Ship/Load, week 5

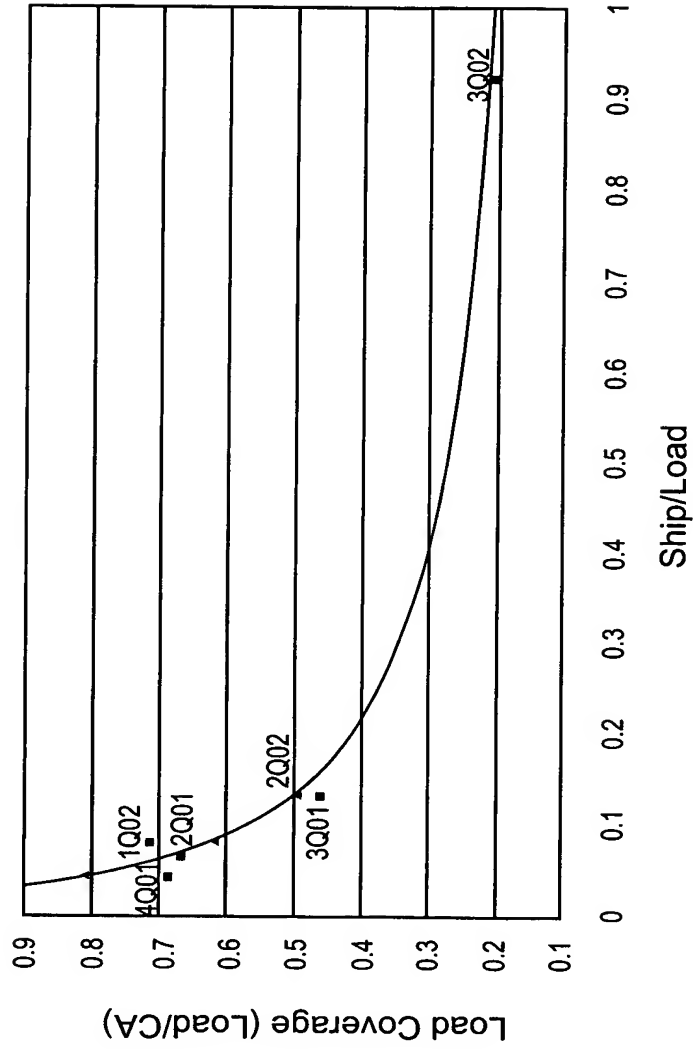


FIGURE 8

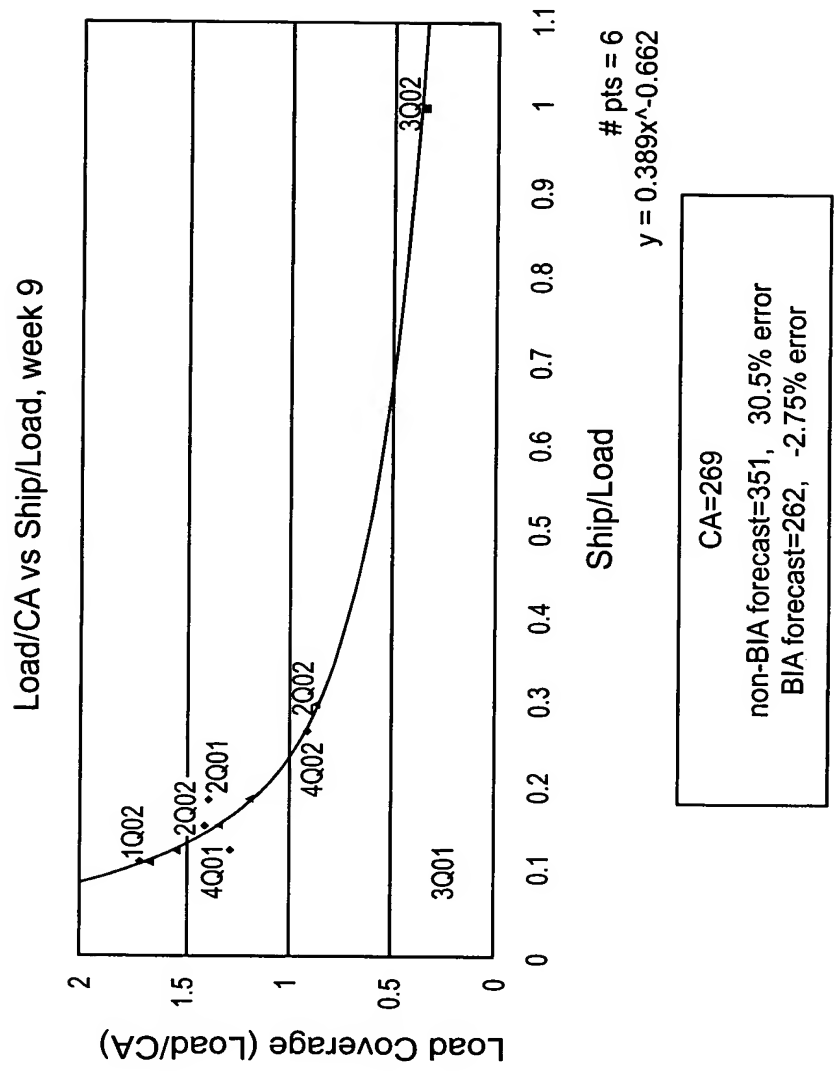


FIGURE 9

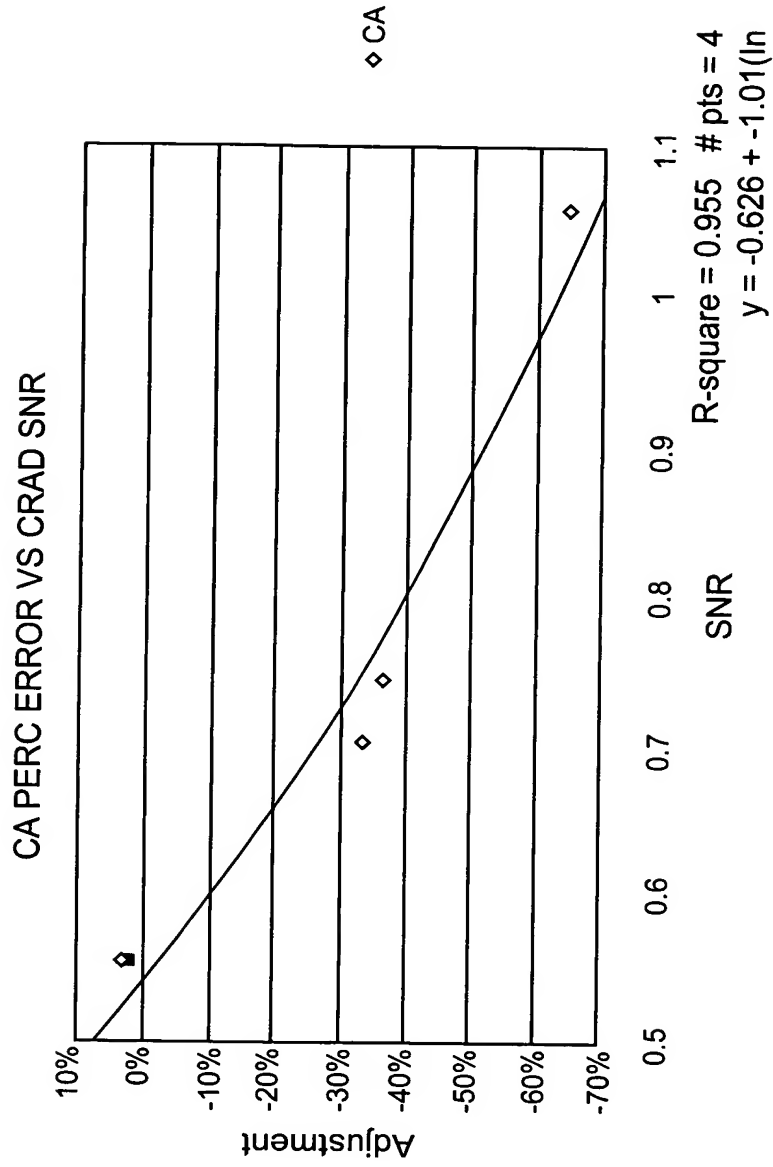


FIGURE 10

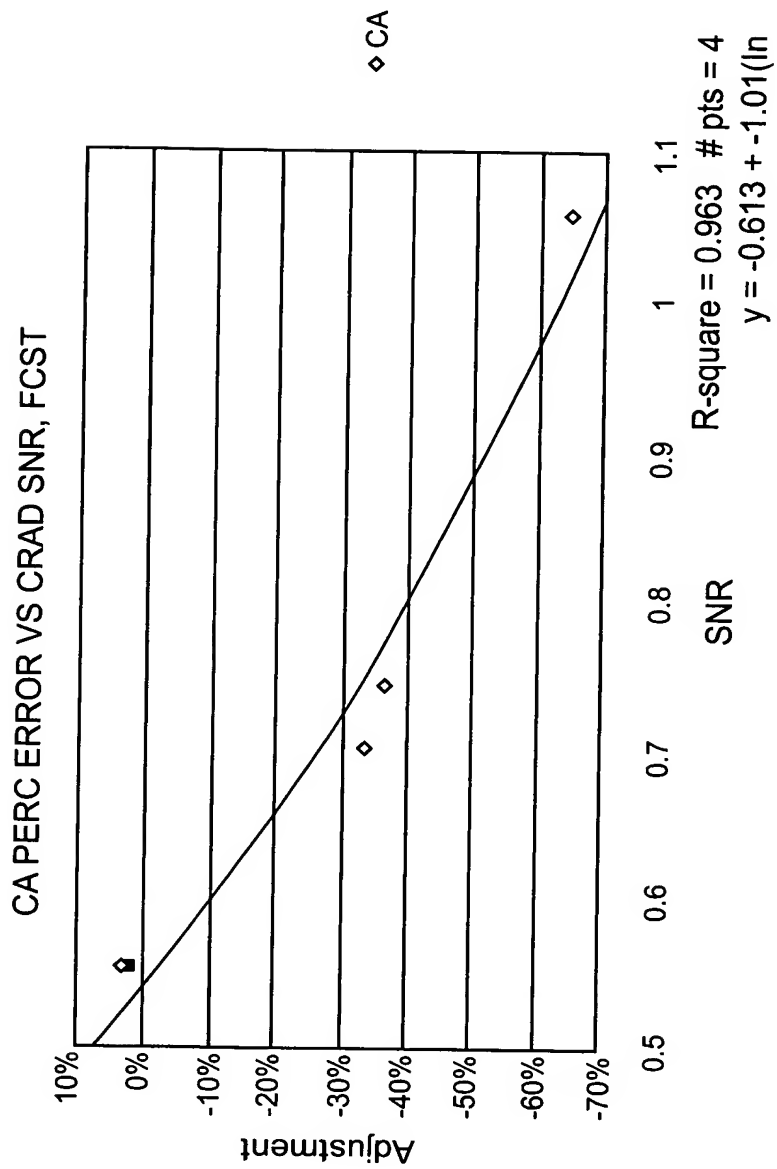


FIGURE 11

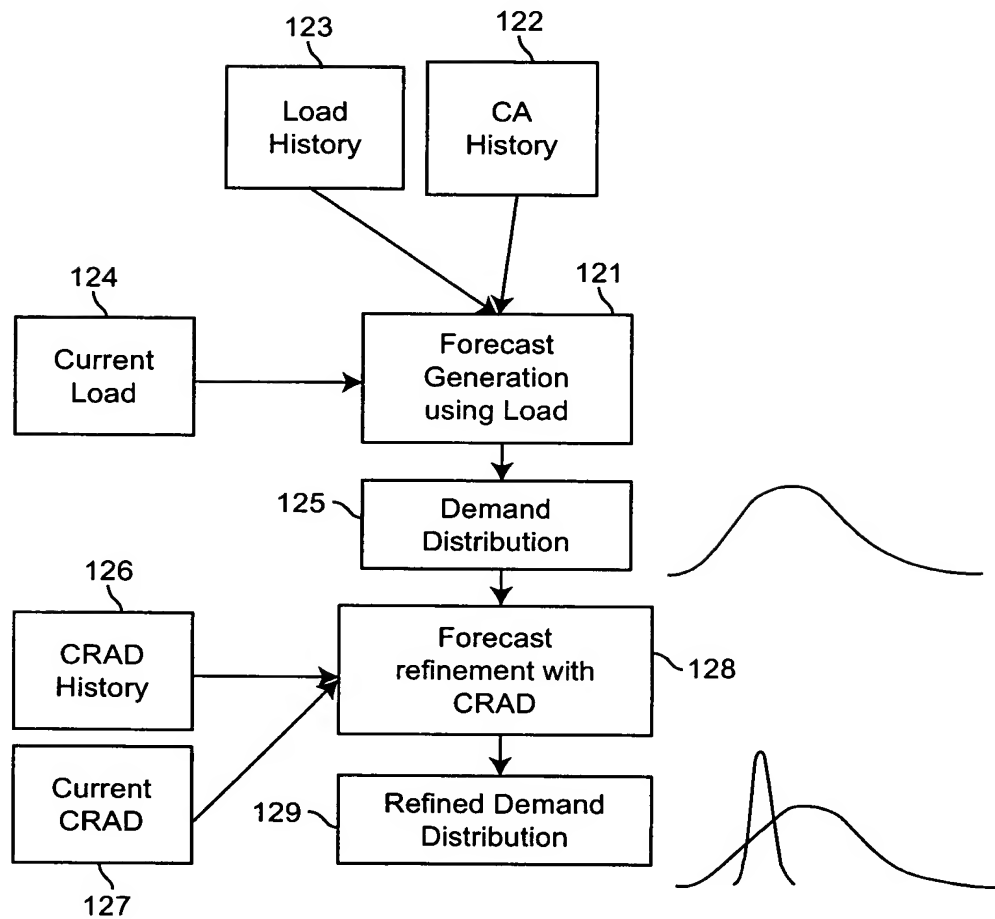


FIGURE 12